TIAA BROKERAGE JOINT TRANSFER ON DEATH ACCOUNT AGREEMENT

Use this form to add beneficiaries to your taxable Brokerage account. Do not use this form to add beneficiaries to your retirement account. Questions? Please call 800-842-2252, weekdays, 8 a.m.-7 p.m. (ET).

AUTHORIZATION AND AGREEMENT (PLEASE RETAIN FOR YOUR RECORDS)

We authorize TIAA-CREF Individual & Institutional Services, LLC ("Broker"), through its clearing broker Pershing LLC ("Pershing"), to open a transfer on death account according to the terms and conditions set forth herein. This Agreement does not supersede or in any way affect any other agreements including but not limited to a Joint Tenant Agreement executed by us for our account, and we agree that we continue to be bound by any such agreements.

- 1. During our lifetime, we shall retain full ownership as joint tenants with rights of survivorship of the securities held in our account. Either one of us may give instructions to transfer, purchase, or sell securities, money, or other property for our account.
- 2. Upon the death of one of us, the securities, money, or other property in the account shall pass to an account held for the surviving joint tenant in his or her individual capacity ("the Survivor Account"). Unless notified otherwise via the execution of a new Transfer on Death Account Agreement, the Beneficiary or Beneficiaries shall remain the same after the death of the first joint tenant. Upon receipt of notice as defined hereunder of the surviving joint tenant's death, Broker and/or Pershing shall, without requiring any further instruction from any other person or entity, transfer all money, securities, and other property from the Survivor Account to separate new account(s) opened for the person ("Beneficiary") or persons ("Beneficiaries") named in Step 2 below or, if permitted by applicable law, Contingent Beneficiary or Contingent Beneficiaries named in Step 3 below, subject to the terms and conditions set forth herein. In keeping therewith, the terms Beneficiary and Beneficiaries shall include Contingent Beneficiary and Contingent Beneficiaries, if applicable. If more than one Beneficiary is named and no percentages are indicated, payment shall be made in equal shares to the Beneficiaries or, in the event of the death of a Beneficiary, the respective Contingent Beneficiary(ies) that survives the surviving joint tenant. Any such transfer of money, securities and other property from our account is subject to any and all existing liens, pledges, mortgages, securities account control agreements or equivalents or other security interests granted against the money, securities and other property to Pershing, our broker/ dealer or other third party. Any such liens, etc. must be satisfied prior to transfer to a Beneficiary unless otherwise agreed to by Pershing.
- 3. In the event that any Beneficiary is a minor in the relevant jurisdiction at the time of receipt of notice of the death of the surviving joint tenant and Broker or Pershing is notified of such fact, the shares shall be transferred to a custodial account or other fiduciary or guardianship account for the benefit of the minor Beneficiary upon receipt of appropriate documentation.
- 4. Broker and Pershing shall be considered to be on notice of any changes in Beneficiary, the death of each of the joint tenants or other information regarding our account on the date on which one respective entity receives a copy, sent by mail, fax, or other acceptable means, of the required documentation. In the case of the death of the surviving joint tenant, Pershing and Broker must receive a copy of the death certificate and any other documentation required to complete the distribution of the proceeds of the Survivor Account. In the event of any changes in Beneficiary, Pershing and Broker must receive a new Transfer on Death Account Agreement executed by the surviving account holder. Neither Pershing nor Broker is obligated to accept change(s) and/or revocation of beneficiary designation by the account owner by the provisions of a will or a codicil to a will.
- 5. During our lifetime, the securities in our account and the Survivor Account are to be registered and held in the name of Pershing LLC or other street or nominee name. However, if necessary to facilitate delivery or transfer of the securities, Pershing and/or Broker has the right at any time, and without further authorization, to register the securities held in our account in our name as joint tenants and/or the Survivor Account in individual name, or otherwise in accordance with transfer agent requirements, without the names of any of the Beneficiaries thereon. We understand that such right is necessary as not all issuers, states, transfer agents, or financial organizations recognize transfer on death registration.



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- 6. If any of the Beneficiaries should predecease the surviving joint tenant, then the Survivor Account will pass only to the surviving Beneficiaries. Contingent beneficiaries will be paid only if all primary beneficiaries (and their heirs if per stirpes is selected) do not survive the participant. We understand that Pershing LLC will use the "per capita" method of beneficiary designation, in which a particular beneficiary's rights end with the death of that Beneficiary and Contingent Beneficiary unless we have designated "per stirpes" as the distribution method. A predeceased Beneficiary's or Contingent Beneficiary's estate shall have no claim to or interest in the Survivor Account. If no Beneficiary survives the surviving joint tenant, then the proceeds of the Survivor Account shall pass to the surviving joint tenant's estate. If we choose per stirpes, and the Beneficiary and Contingent Beneficiary predecease us, the portion of the account designated for the deceased Beneficiary shall pass to his or her heirs in equal parts.
- 7. In the event that any securities or other property in the Survivor Account cannot, for any reason, be partitioned and transferred to any of the Beneficiaries equally, Pershing shall, to the extent necessary, liquidate securities or other property and transfer the proceeds of that sale equally among the Beneficiaries.
- 8. If any Beneficiary hereunder is or becomes the spouse of either joint tenant, then the dissolution of that marriage shall have no effect on the designation of Beneficiary unless and until Pershing or Broker receives notice to the contrary by receipt of a new Transfer on Death Account Agreement. Neither Pershing nor Broker shall be obligated to change a beneficiary designation by the provisions of a Divorce Agreement, except where ordered by a court of competent jurisdiction.
- 9. In the event that, upon the death of the surviving joint tenant, the Survivor Account reflects a debit balance, Pershing or Broker may liquidate any securities, at its discretion, required to satisfy that debit prior to distribution of any money, securities, or other property to the Beneficiary or Beneficiaries.
- 10. Pershing and Broker shall have the right to require execution of further documents by any Beneficiary or the legal representative of any Beneficiary, including but not limited to a Margin Agreement, prior to any distribution of the money, securities, or other property in the Survivor Account.
- 11. In connection with Pershing and Broker acting in compliance with this Agreement, or any document Pershing or Broker reasonably believes amends this Agreement, we or our estate hereby agree to indemnify and hold Pershing, Broker and their respective affiliates, directors, officers, agents, and employees, and their heirs, executors, administrators, successors, and assigns, harmless against any loss, claim, suit, damage or expense (including reasonable attorney's fees), including but not limited to:
 - the Beneficiary or Beneficiaries and/or our heirs, successors, spouse(s), and offspring from any actions taken in opening and maintaining our account or the Survivor Account, registering the securities or other property, or making the distributions upon receipt of notice of the death of the surviving joint tenant;
 - any conflicting designation of Beneficiary or Beneficiaries and their respective Contingent Beneficiary or Contingent Beneficiaries made in the will of the surviving joint tenant or codicil of such will, revocable living trust, or any other document signed by the surviving joint tenant.
- 12. Neither Pershing nor Broker has an obligation to: locate Beneficiaries; question or investigate the circumstances of our deaths as it is reported to them; determine the age or any other facts about a Beneficiary as per FINRA Rule(s) 2090, 2111 or the applicable "Know Your Customer" rules; appoint, if applicable, a custodian or guardian for any minor Beneficiary; locate or notify any spouse(s), children, or other heirs of ours upon our deaths; verify the legality of any distribution under the applicable probate, estate and transfer on death laws of any state where transfer takes place; or determine which state's law is applicable.
- 13. Not all states recognize Transfer on Death registration, and we acknowledge that neither Pershing nor Broker make any representation as to the validity of this registration as a means of transferring on death in our case. We also acknowledge that we are not relying upon Pershing or Broker for any assurance of the validity of the Transfer on Death registration and will consult with our own attorney or advisor with respect to its appropriateness for us. If we live in a state that does not recognize Transfer on Death registration, the assets in the account shall be transferred in accordance with the laws of the state of New Jersey. If we are non-U.S. individuals establishing this account, we acknowledge and agree that neither Pershing nor Broker are responsible for compliance with the laws of the state of New Jersey. We acknowledge and understand that this account may be subject to the U.S. Nonresident Alien Estate Tax and agree that neither Pershing nor Broker are responsible for our compliance with U.S. tax laws.



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14. ARBITRATION DISCLOSURES

THIS AGREEMENT CONTAINS A PREDISPUTE ARBITRATION CLAUSE. BY SIGNING AN ARBITRATION AGREEMENT THE PARTIES AGREE AS FOLLOWS: ALL PARTIES TO THIS AGREEMENT ARE GIVING UP THE RIGHT TO SUE EACH OTHER IN COURT, INCLUDING THE RIGHT TO A TRIAL BY JURY, EXCEPT AS PROVIDED BY THE RULES OF THE ARBITRATION FORUM IN WHICH A CLAIM IS FILED.

- ARBITRATION AWARDS ARE GENERALLY FINAL AND BINDING; A PARTY'S ABILITY TO HAVE A COURT REVERSE OR MODIFY AN ARBITRATION AWARD IS VERY LIMITED.
- THE ABILITY OF THE PARTIES TO OBTAIN DOCUMENTS, WITNESS STATEMENTS AND OTHER DISCOVERY IS GENERALLY MORE LIMITED IN ARBITRATION THAN IN COURT PROCEEDINGS.
- THE ARBITRATORS DO NOT HAVE TO EXPLAIN THE REASON(S) FOR THEIR AWARD UNLESS, IN AN ELIGIBLE CASE, A JOINT REQUEST FOR AN EXPLAINED DECISION HAS BEEN SUBMITTED BY ALL PARTIES TO THE PANEL AT LEAST 20 DAYS PRIOR TO THE FIRST SCHEDULED HEARING DATE.
- THE PANEL OF ARBITRATORS WILL TYPICALLY INCLUDE A MINORITY OF ARBITRATORS WHO WERE OR ARE AFFILIATED WITH THE SECURITIES INDUSTRY.
- THE RULES OF SOME ARBITRATION FORUMS MAY IMPOSE TIME LIMITS FOR BRINGING A CLAIM IN ARBITRATION. IN SOME CASES, A CLAIM THAT IS INELIGIBLE FOR ARBITRATION MAY BE BROUGHT IN COURT.
- THE RULES OF THE ARBITRATION FORUM IN WHICH THE CLAIM IS FILED, AND ANY AMENDMENTS THERETO, SHALL BE INCORPORATED INTO THIS AGREEMENT.
- **15. ARBITRATION AGREEMENT**

ANY CONTROVERSY BETWEEN US AND PERSHING OR BROKER SHALL BE SUBMITTED TO ARBITRATION BEFORE ANY NATIONAL SECURITIES EXCHANGE ON WHICH A TRANSACTION GIVING RISE TO THE CLAIM TOOK PLACE (AND ONLY BEFORE SUCH EXCHANGE), OR THE FINANCIAL INDUSTRY REGULATORY AUTHORITY. NO PERSON SHALL BRING A PUTATIVE OR CERTIFIED CLASS ACTION TO ARBITRATION, NOR SEEK TO ENFORCE ANY PREDISPUTE ARBITRATION AGREEMENT AGAINST ANY PERSON WHO HAS INITIATED IN COURT A PUTATIVE CLASS ACTION, OR WHO IS A MEMBER OF A PUTATIVE CLASS WHO HAS NOT OPTED OUT OF THE CLASS WITH REPSECT TO ANY CLAIMS ENCOMPASSED BY THE PUTATIVE CLASS ACTION UNTIL: (I) THE CLASS CERTIFICATION IS DENIED; (II) THE CLASS IS DECERTIFIED; OR (III) THE CUSTOMER IS EXCLUDED FROM THE CLASS BY THE COURT. SUCH FORBEARANCE TO ENFORCE AN AGREEMENT TO ARBITRATE SHALL NOT CONSTITUTE A WAIVER OF ANY RIGHTS UNDER THIS AGREEMENT EXCEPT TO THE EXTENT STATED HEREIN.

THE LAWS OF THE STATE OF NEW YORK GOVERN.

THE BROKERAGE AGREEMENT IS GOVERNED BY A PREDISPUTE ARBITRATION CLAUSE, WHICH APPEARS ON PAGES 2 AND 3, PARAGRAPH 13 OF THE BROKERAGE AGREEMENT.



STEP 1: BROKERAGE ACCOUNT INFORMATION (REQUIRED)

Your joint tenancy must match what is on your brokerage account.

Brokerage Account Number

(leave bla	nk if nev	v accou	nt)		

Primary Account Owner Name(s)

Secondary Account Owner Name(s)

Account Type (Select One)

Joint Tenants with Rights of Survivorship

Joint Tenants by the Entirety

STEP 2: CHOOSE YOUR PRIMARY BENEFICIARY(IES)

Important Information:

Complete as much information as possible for each beneficiary. Name and date of birth are required fields, but the more information provided, the more accurately and timely distributions can be made. Each beneficiary section (Primary and Contingent) needs to equal 100%. If percentages are not provided the account will be split evenly among the beneficiaries with rounded values assigned to the first named primary beneficiary.

Contingent beneficiaries are only used if all primary beneficiaries and their heirs if per stirpes is selected predecease the account owner(s).

You may add as many beneficiaries as you like, but please be aware we are only able to display up to 10 primary and 10 contingent beneficiaries online or on statements and beneficiary type may not be reflected. All final settlements use the last received and processed document(s) as instruction to ensure all beneficiaries are notified.

If more primary or contingent beneficiaries are needed, you may submit another document or spreadsheet containing the necessary information. Any extra or copied pages must include account number and be signed and dated separately. All pages of the form must be submitted, including any blank pages.

Primary Beneficiary(ies)

. Name (First, Middle, Last Name,	/Trust Title)			Percentage
				%
Date of Birth/ Date of Trust (mm/dd/yyyy)	Social Secur Taxpayer Ider	ity Number/ ntification Number		
			Per Stirpes (lineal heirs)	
Mailing Address		City	Stat	e Zip Code
Phone Number	Phone Number Type	Email Add	dress	
	Mobile Home	Business		



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2.	Name (First, Middle, Last Name/Trust Title)				Percentage
	Date of Birth/ Date of Trust (mm/dd/yyyy)	Social Security Number, Taxpayer Identification N			%
			Per Stirpes (lir	ieal heirs)	
	Mailing Address		City	State	Zip Code
		Number Type	Email Address		
3.	Name (First, Middle, Last Name/Trust Title)		3		Percentage %
	Date of Birth/ Date of Trust (mm/dd/yyyy)	Social Security Number, Taxpayer Identification N	/ Number Per Stirpes (lir	neal heirs)	
	Mailing Address		City	State	Zip Code
		e Number Type lobile Home Busines	Email Address		
4.	Name (First, Middle, Last Name/Trust Title)				Percentage %
	Date of Birth/ Date of Trust (mm/dd/yyyy)	Social Security Number, Taxpayer Identification N	/ Number Per Stirpes (lir	neal heirs)	
	Mailing Address		City	State	Zip Code
		e Number Type	Email Address		
	N	lobile Home Busines	S		



STEP 3: CHOOSE YOUR CONTINGENT BENEFICIARY(IES)

Tell us who should receive your account balance ONLY if the following occurs:

- All primary beneficiary(ies) predecease you, and
- The lineal descendants of the primary beneficiary(ies) predecease you, if that option was selected.

If you have more than one contingent beneficiary, benefits will be divided equally among the living beneficiaries unless you specify percentages. The percentages for all contingent beneficiaries must total 100%.

Contingent Beneficiary(ies)

1. Name (First, Middle, Last Name/Trust Tit	le)			Percentage
Date of Birth/ Date of Trust (mm/dd/yyyy)	Social Security Num Taxpayer Identificatio	ber/ n Number		%
			Per Stirpes (lineal heirs)	
Mailing Address		City	State	Zip Code
Phone Number Pho	ne Number Type Mobile Home Busir	Email Address		
2. Name (First, Middle, Last Name/Trust Tit	le)			Percentage %
Date of Birth/ Date of Trust (mm/dd/yyyy)	Social Security Num Taxpayer Identificatio	n Number	Per Stirpes (lineal heirs)	
Mailing Address		City	State	Zip Code
Phone Number Pho	ne Number Type Mobile Home Busi	Email Address		
3. Name (First, Middle, Last Name/Trust Tit	le)			Percentage %
Date of Birth/ Date of Trust (mm/dd/yyyy)	Social Security Num Taxpayer Identificatio	n Number	Per Stirpes (lineal heirs)	
Mailing Address		City	State	Zip Code
Phone Number Pho	ne Number Type Mobile Home Busir	Email Address		



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				Page 4
Name (First, Middle, Last Name,	/Trust Title)			Percentage
Date of Birth/ Date of Trust (mm/dd/yyyy)		rity Number/ entification Number	Per Stirpes (lineal heirs)	
Mailing Address		City	State	e Zip Code
Phone Number	Phone Number Type	Email Ado	dress	
	Mobile Home	Business		

Note: If you need to add additional beneficiaries, you may make additional copies of the applicable sections of this form or submit your own letter. Please be sure to include all the information in the format shown above. Each additional page must contain your account number, signature, and date. Ensure that you are labeling each beneficiary as primary or contingent.

STEP 4: SPOUSAL CONSENT (REQUIRED)

PRIMARY ACCOUNT OWNER

If you reside in one of the following states: AZ, CA, ID, LA, NV, NM, TX, WA, or WI, AND you are married, you must complete this section. If you reside in a state not listed and/or are not married, you may continue to the next step.

The joint account owner on this account is my spouse. (Continue to Step 5)

I am married, but the joint account owner is not my spouse. (The spouse of the primary account holder must sign below.)

By signing below, I (spouse of the Account Owner) hereby consent to any designation of Beneficiary(ies) made above and I waive any community and marital property rights to the assets in this account after the death of the Account Owner and/or Joint Tenant(s).

Spouse Signature	Spouse Printed Name	Today's Date (mm/dd/yyyy)

SECONDARY ACCOUNT OWNER

The joint account owner on this account is my spouse. (Continue to Step 5)

I am married, but the joint account owner is not my spouse. (The spouse of the secondary account holder must sign below.)

By signing below, I (spouse of the Account Owner) hereby consent to any designation of Beneficiary(ies) made above and I waive any community and marital property rights to the assets in this account after the death of the Account Owner and/or Joint Tenant(s).

Spouse Signature	Spouse Printed Name	Today's Date (mm/dd/yyyy)



STEP 5: ACCOUNT OWNER(S) SIGNATURE (REQUIRED)

The Account Owners whose signatures appear below hereby request that Pershing LLC on behalf of TIAA Brokerage establish a Transfer on Death account and understand that the beneficiary designation is governed by the Transfer on Death agreement, client account agreement, and any other applicable written agreements including the predispute arbitration clause. The Account Owners below designate the listed persons/entities as Beneficiary(ies) of this Transfer on Death Account and agree to be bound to the Terms and Conditions set forth within.

This form must be signed by the Account Owners and cannot by signed by a Power of Attorney (POA).

Both Account Owners must sign.

Primary Account Owner's Signature	Today's Date (mm/dd/yyyy)
Secondary Account Owner's Signature	Today's Date (mm/dd/yyyy)

OPTIONS TO RETURN COMPLETED FORM(S)

Please return all numbered pages, including any pages you didn't need to complete.

OPTION 1: Digitally sign and submit your form.

If you received a digital form, complete the digital signature process.

OPTION 2: Use the TIAA mobile app to quickly upload your completed document(s). It's as simple as taking a picture. Haven't downloaded the TIAA mobile app? Get it today in the App Store or Google Play.

Tap the Profile icon in the lower-right corner of your screen, then tap Upload files and follow the step-by-step instructions.

OPTION 3: Use your personal computer to quickly upload your completed document(s). Go to tiaa.org/upload, select Upload files, and follow the step-by-step instructions.

OPTION 4: If you prefer to fax or mail your completed documents, use the information provided below.

FAX: 800-914-8922 (within U.S.) STANDARD MAIL: TIAA P.O. Box 1280 Charlotte, NC 28201-1280 OVERNIGHT DELIVERY: TIAA 8500 Andrew Carnegie Blvd. Charlotte, NC 28262

